

**APPENDIX H**  
**COMMUNICATION RECORDS**  
**FOR DESIGN CHANGES**

## DESIGN CHANGE 1 AND 2 CORRESPONDENCE

**From:** [Nicholas Steenhaut](#)  
**To:** [June Yeung](#); [Eric Emery](#)  
**Subject:** Fwd: Reflective Targets - switching targets due to site conditions  
**Date:** Monday, August 01, 2016 10:49:47 AM

---

See below - also note frequency of rip rap survey changes in this approval

Sent from my iPhone

Begin forwarded message:

**From:** "Geiger, William" <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Date:** May 13, 2016 at 1:31:05 PM EDT  
**To:** Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Subject:** RE: Reflective Targets - switching targets due to site conditions

Yes, I approve

**William A. Geiger**  
Remedial Project Manager  
Hazardous Site Cleanup Division (3HS21)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: 215.814.3413  
[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)

---

**From:** Nicholas Steenhaut [<mailto:NSteenhaut@ramboll.com>]  
**Sent:** Friday, May 13, 2016 1:30 PM  
**To:** Geiger, William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Subject:** Re: Reflective Targets - switching targets due to site conditions

Will -

There is a requirement to survey the rip rap elevation every two days, and a requirement to survey the wall twice per week. Would you have an objection to Creamer surveying the rip rap elevation on the same schedule as the wall (I.e. Twice a week)? Right now they are placing stone in Zone 2 and it is obvious they are not close to being done in this area, so a survey every 48 hours would not appear to be warranted until they get closer to the final elevations. Please let me know if you approve of this approach.

Sent from my iPhone

On May 9, 2016, at 2:29 PM, Geiger, William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)> wrote:

Thanks, Nicholas, I don't see any issues.

William A. Geiger  
Remedial Project Manager  
Hazardous Site Cleanup Division (3HS21)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: 215.814.3413  
[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)

---

**From:** Nicholas Steenhaut [<mailto:NSteenhaut@ramboll.com>]  
**Sent:** Monday, May 09, 2016 2:27 PM  
**To:** Walter J. Papp, Jr. ([walter@racllc.com](mailto:walter@racllc.com)) <[walter@racllc.com](mailto:walter@racllc.com)>; Geiger, William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Cc:** Joseph Vitale <[jvitale@ramboll.com](mailto:jvitale@ramboll.com)>  
**Subject:** FW: Reflective Targets - switching targets due to site conditions

Walter and Will –

The surveyor is using a different survey target than the ones we reviewed and EPA approved. The accuracy of these new targets, which are to be flush mounted to the wall, is 0.25" (which is the same as the previously approved targets). The contractor's motivation for the switch is described below. Some additional info on the targets is included in the attached. Please let me know if you have any issues with this change at your earliest convenience.

Yours sincerely,

**Nicholas Steenhaut, PE**  
Senior Manager  
D +1 617 9466109  
M +1 607 2620139  
[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)

---

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Boston, MA 02110  
USA  
[www.ramboll-environ.com](http://www.ramboll-environ.com)

<image001.png>

---

**From:** Kowalski, Gary [<mailto:GKowalski@creamerenvironmental.com>]  
**Sent:** Monday, May 09, 2016 1:38 PM

**To:** Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Cc:** Castellani, John <[JCastellani@creamerenvironmental.com](mailto:JCastellani@creamerenvironmental.com)>; Murphy, Meghan <[MMurphy@creamerenvironmental.com](mailto:MMurphy@creamerenvironmental.com)>  
**Subject:** Reflective Targets - switching targets due to site conditions

Nick,

The surveyor is going to use the attached flush mounted reflective targets instead of the survey target adapter with reflective angle targets previously submitted. There's a couple reasons why: 1. The flush mounted targets provide a more accurate reading based on the angle from the monuments to the proposed target locations. The previously submitted targets are not adjustable and therefore the angle of the shot would be inaccurate. 2. Since these targets mount flush to the sheets, there's less chance of compromise due to a rock falling out of the bucket or being accidentally struck by a boot from working in the area.

Let me know if you need anything else.

-Gary

Gary Kowalski, Project Manager  
**CREAMER ENVIRONMENTAL, INC.**

(New Address)

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Cedar Grove, NJ 07009  
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[www.creamerenvironmental.com](http://www.creamerenvironmental.com)

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## DESIGN CHANGE 4 CORRESPONDENCE

**From:** [Nicholas Steenhaut](#)  
**To:** [June Yeung](#); [Eric Emery](#)  
**Subject:** Fwd: Seed Mix  
**Date:** Monday, August 01, 2016 10:53:38 AM

---

EPA approval of rye addition

Sent from my iPhone

Begin forwarded message:

**From:** Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Date:** July 11, 2016 at 8:46:08 AM EDT  
**To:** "Pluta, Bruce" <[Pluta.Bruce@epa.gov](mailto:Pluta.Bruce@epa.gov)>  
**Cc:** "Geiger, William" <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Subject:** Re: Seed Mix

Thanks Bruce. Just to be clear - it is not technically a substitution. We're still planning to seed the native mix. Just adding rye.

Sent from my iPhone

On Jul 11, 2016, at 8:42 AM, Pluta, Bruce <[Pluta.Bruce@epa.gov](mailto:Pluta.Bruce@epa.gov)> wrote:

The substitution is fine with me.

~~~~~  
Bruce R. Pluta, Coordinator  
Biological Technical Assistance Group  
Hazardous Site Cleanup Division  
3HS41  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

Phone: 215-814-2380  
FAX: 215-814-3015

---

**From:** Nicholas Steenhaut [<mailto:NSteenhaut@ramboll.com>]  
**Sent:** Friday, July 08, 2016 2:12 PM  
**To:** Pluta, Bruce <[Pluta.Bruce@epa.gov](mailto:Pluta.Bruce@epa.gov)>  
**Subject:** FW: Seed Mix

Bruce - I sent the email below to Will a few moments ago, but it looks like he is out. Can you take a look and let me know if our proposed addition is acceptable to you?



Sent from my iPhone

Begin forwarded message:

**From:** <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Date:** July 8, 2016 at 1:42:27 PM EDT  
**To:** "William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)> Geiger"  
<[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Cc:** <[jvitale@ramboll.com](mailto:jvitale@ramboll.com)>, Meghan Murphy  
<[MMurphy@creamerenvironmental.com](mailto:MMurphy@creamerenvironmental.com)>  
**Subject:** Seed Mix

Will -

We'd like to add 30 lbs per acre of grain rye to the seed mix you previously reviewed and approved. The purpose of this addition is to provide some cover while the native grasses establish themselves. This should limit erosion potential and incursion of invasives. Grain rye is what Ernst recommends and is less aggressive than annual rye. Can you run this by Bruce? We're plan on to seed it starting Tuesday and would like EPA's approval first.

Thanks!

Sent from my iPhone

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## DESIGN CHANGE 5 CORRESPONDENCE

**From:** [Walter J. Papp, Jr.](#)  
**To:** [Depolo, David S NAP](#); [Eric Emery](#); [Nicholas Steenhaut](#); [June Yeung](#)  
**Cc:** [Joseph Caciola](#); [Geiger, William](#)  
**Subject:** RE: Metal Bank - Welding on Friday 6/3  
**Date:** Tuesday, June 07, 2016 7:40:41 AM

---

Hi David-

We agree, the stick should be 5/32" or 1/8" for vertical and overhead welding and a back bar should be used for a full penetration weld.

Walter

Walter J. Papp Jr., P.E.  
RA Consultants LLC  
512 7th Avenue, 6th Floor  
New York, NY 10018

Direct: 646-484-3252  
Main: 646-484-3250

[walter@racllc.com](mailto:walter@racllc.com)

-----Original Message-----

From: Depolo, David S NAP [<mailto:David.S.Depolo@usace.army.mil>]  
Sent: Monday, June 06, 2016 11:53 AM  
To: Walter J. Papp, Jr. <[walter@racllc.com](mailto:walter@racllc.com)>; Eric Emery <[eemery@ramboll.com](mailto:eemery@ramboll.com)>; Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>; [jyeung@ramboll.com](mailto:jyeung@ramboll.com)  
Cc: Joseph Caciola <[joe@racllc.com](mailto:joe@racllc.com)>; Geiger, William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
Subject: RE: Metal Bank - Welding on Friday 6/3

All,

Upon returning to the office I found the welder cert for Michael Gill for overhead welding (position 6G), my apologies. The other welder, Tyrone Livingston is not certified for overhead welding and therefore should not do it. June please let John know we have the cert as I asked him to get it to us. According to AWS 1.1 the maximum diameter of electrode is 3/16" for overhead and vertical welds using SMAW (Stick). The 1/4" diameter rods on site are only allowed for fillet or groove welds in the flat position and fillet welds in the horizontal position. I am not sure who filled out the WPS that was submitted which called for the 1/4" rods but I believe that was an error, 5/32" or 1/8" rods should be used, but Walter should make the final call. Also the welders in the field were unaware that the weld specified on the WPS required a backing bar. I told them in the field that is was required but again I told them that decision needed to come from Walter since he is the designer. I believe John is waiting to hear from Walter on the stick diameter so they are set to go tomorrow. I think that before any welding is done, someone needs to ensure the welders are aware of all of the requirements (preparation) on the WPS for the PQR B-U2a weld.

Dave

-----Original Message-----

From: Walter J. Papp, Jr. [<mailto:walter@racllc.com>]  
Sent: Friday, June 03, 2016 7:26 AM  
To: Castellani, John <[JCastellani@creamerenvironmental.com](mailto:JCastellani@creamerenvironmental.com)>; Eric Emery <[eemery@ramboll.com](mailto:eemery@ramboll.com)>; Depolo, David S NAP <[David.S.Depolo@usace.army.mil](mailto:David.S.Depolo@usace.army.mil)>  
Cc: Joseph Caciola <[joe@racllc.com](mailto:joe@racllc.com)>

Subject: [EXTERNAL] RE: Metal Bank - Welding on Friday 6/3

Thanks John. We will be there Monday, have a great weekend.

Walter

Walter J. Papp Jr., P.E.

RA Consultants LLC

512 7th Avenue, 6th Floor

New York, NY 10018

Direct: 646-484-3252

Main: 646-484-3250

walter@racllc.com <<mailto:walter@racllc.com>>

From: Castellani, John [<mailto:JCastellani@creamerenvironmental.com>]

Sent: Friday, June 03, 2016 6:44 AM

To: Walter J. Papp, Jr. <walter@racllc.com>; Eric Emery <eemery@ramboll.com>;

David.S.Depolo@usace.army.mil

Subject: RE: Metal Bank - Welding on Friday 6/3

Walter,

Judging by the rain we have already received, and what is forecasted, I think it safe to say the dock builders cant weld today. It looks like Monday will be a better day.

Sent from my Verizon Wireless 4G LTE smartphone

----- Original message -----

From: "Walter J. Papp, Jr."

Date: 06/02/2016 5:16 PM (GMT-05:00)

To: Eric Emery , David.S.Depolo@usace.army.mil <<mailto:David.S.Depolo@usace.army.mil>>

Cc: "Castellani, John"

Subject: RE: Metal Bank - Welding on Friday 6/3

Eric-

If we called at say 7am and John confirmed that they are welding, it will take us about 3.5-hrs to get to the site. Let us know if this is acceptable or perhaps we can postpone until Monday.

Walter

Walter J. Papp Jr., P.E.

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Main: 646-484-3250

walter@racllc.com <<mailto:walter@racllc.com>>

From: Eric Emery [<mailto:eemery@ramboll.com>]

Sent: Thursday, June 02, 2016 3:25 PM

To: Walter J. Papp, Jr. <[walter@racllc.com](mailto:walter@racllc.com)> >; David.S.Depolo@usace.army.mil <<mailto:David.S.Depolo@usace.army.mil>>

Cc: Castellani, John <[JCastellani@creamerenvironmental.com](mailto:JCastellani@creamerenvironmental.com)> <<mailto:JCastellani@creamerenvironmental.com>> >

Subject: Metal Bank - Welding on Friday 6/3

Walter, Dave:

With rain expected tomorrow, it might be best for you to reach out to John before heading to the site in the event that welding is either delayed or postponed until Monday. John can be reached at 201-522-5089.

Regards,

Eric

Eric Emery, EIT

Senior Associate

D 609.243.9891

M 609.961.1363

eemery@ramboll.com <<mailto:eemery@ramboll.com>>

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## DESIGN CHANGE 7 CORRESPONDENCE



**From:** [Joseph Vitale](#)  
**To:** [June Yeung](#); [Eric Emery](#); [JCastellani@creamerenvironmental.com](mailto:JCastellani@creamerenvironmental.com); [TCawley@creamerenvironmental.com](mailto:TCawley@creamerenvironmental.com); [MMurphy@creamerenvironmental.com](mailto:MMurphy@creamerenvironmental.com)  
**Subject:** Fwd: Metal Bank  
**Date:** Monday, June 27, 2016 8:32:09 AM  
**Attachments:** [image001.png](#)

---

Sent from my iPhone

Begin forwarded message:

**From:** "Geiger, William" <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Date:** June 27, 2016 at 8:07:08 AM EDT  
**To:** Joseph Vitale <[jvitale@ramboll.com](mailto:jvitale@ramboll.com)>  
**Subject:** RE: Metal Bank

Joe, just saw your email below. EPA approves your suggestions for those issues.

**William A. Geiger**  
Remedial Project Manager  
Hazardous Site Cleanup Division (3HS21)  
**U.S. Environmental Protection Agency**  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: 215.814.3413  
[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)

---

**From:** Joseph Vitale [<mailto:jvitale@ramboll.com>]  
**Sent:** Friday, June 24, 2016 9:31 AM  
**To:** Geiger, William <[Geiger.William@epa.gov](mailto:Geiger.William@epa.gov)>  
**Subject:** Metal Bank

Hi Will:

We need some issues clarified for the removal of the crushed stone.

<!--[if !supportLists]--> <!--[endif]-->The plan says "CEI will pick up the stone" with no mention of expected % removal, or acceptable amount that can remain on-site. Bruce's email mentioned removing "the vast majority of stone", but it is still unclear what amount that means, or how it will be determined that they have satisfied the requirement. I suggest less than 10% remain.

<!--[if !supportLists]--> <!--[endif]-->Is there a limit to how deep into the cap CEI should go in an effort to remove stone, considering no material will be imported to backfill the area? I suggest less than 6 inches.

<!--[if !supportLists]--> <!--[endif]-->CEI would like confirmation that the

crushed stone and associated fines/dirt as a result of this removal effort can all be placed on the berm. This is consistent with the approval vegetation restoration plan.

If possible, I would like a response this morning. Thanks for your help.

Regards,  
**Joseph P Vitale, PE, LSP**

MS Civil Eng., MBA  
Principal Consultant

Office 617 946 6115  
Mobile 617 721 2766  
[jvitale@ramboll.com](mailto:jvitale@ramboll.com)

---

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My email addresss has changed to [jvitale@ramboll.com](mailto:jvitale@ramboll.com). Please make a note of this in your contact records. I will continue to receive email at the [jvitale@environcorp.com](mailto:jvitale@environcorp.com) address.

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## DESIGN CHANGE 8 CORRESPONDENCE

**From:** [Joseph Caciola](#)  
**To:** [June Yeung](#)  
**Cc:** [Walter J. Papp, Jr.](#); [Nicholas Steenhaut](#)  
**Subject:** RE: Metal Bank - welding today  
**Date:** Thursday, June 09, 2016 10:04:08 AM  
**Attachments:** [image001.png](#)

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Hi June,

We would prefer the second option (HP + Plate). Further, the HP and Plate should be welded together on shore prior to installation to ensure a good weld between the HP and Plate.

Thanks,  
Joe

-

Joseph J. Caciola Jr., P.E.

**RA Consultants LLC**

512 7<sup>th</sup> Avenue, 6<sup>th</sup> Floor

New York, NY 10018

O: (646) 484-3250

C: (917) 636-8281

[joe@racllc.com](mailto:joe@racllc.com)

---

**From:** June Yeung [mailto:jyeung@ramboll.com]  
**Sent:** Thursday, June 9, 2016 9:39 AM  
**To:** Joseph Caciola <joe@racllc.com>  
**Cc:** Walter J. Papp, Jr. <walter@racllc.com>; Nicholas Steenhaut <NSteenhaut@ramboll.com>  
**Subject:** Re: Metal Bank - welding today

Thanks Joe. Dave Depolo from the Army Corps is currently on-site. He spoke with the welders, who indicated that they would like to pack the space between the walers and the sheetpile wall with a W section. Please see the attached sketches. The top shows what they plan on doing. The bottom shows what Dave would prefer- note that a plate is added in between the waler and the sheetpile wall. Which one is okay with RAC?

Thanks,  
June

Sent from my Verizon 4G LTE Smartphone

----- Original message-----

**From:** Joseph Caciola  
**Date:** Thu, Jun 9, 2016 8:05 AM  
**To:** June Yeung;  
**Cc:** Walter J. Papp, Jr.; Nicholas Steenhaut;  
**Subject:** RE: Metal Bank - welding today

Hi June,

Thanks for the update. Based on the rate of progress, we were not planning on visiting the site today. If any issues arise we should be available to resolve them remotely.

Regards,  
Joe

-

Joseph J. Caciola Jr., P.E.

**RA Consultants LLC**

512 7<sup>th</sup> Avenue, 6<sup>th</sup> Floor

New York, NY 10018

O: [\(646\) 484-3250](tel:6464843250)

C: [\(917\) 636-8281](tel:9176368281)

[joe@racllc.com](mailto:joe@racllc.com)

---

**From:** June Yeung [mailto:[jyeung@ramboll.com](mailto:jyeung@ramboll.com)]

**Sent:** Thursday, June 9, 2016 7:15 AM

**To:** Joseph Caciola [joe@racllc.com](mailto:joe@racllc.com)

**Cc:** Walter J. Papp, Jr. [walter@racllc.com](mailto:walter@racllc.com); Nicholas Steenhaut

[nsteenhaut@ramboll.com](mailto:nsteenhaut@ramboll.com)

**Subject:** Metal Bank - welding today

Joe,

I just spoke with the welding foreman, who indicated that they will continue to do preparation work this morning, but they should be able to start welding probably sometime in the morning. They will not provide a more precise time estimate. While the top section is not ready for welding yet, they will be butt-welding the bottom section first.

Thanks,  
June

Yours sincerely

**June Yeung, PhD, EIT**

Senior Associate  
Engineering

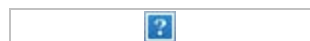
D [6092439836](tel:6092439836)

M [6099775899](tel:6099775899)

[jyeung@ramboll.com](mailto:jyeung@ramboll.com)

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## DESIGN CHANGE 10 CORRESPONDENCE

**From:** [Walter J. Papp, Jr.](#)  
**To:** [June Yeung](#)  
**Cc:** [Nicholas Steenhaut](#)  
**Subject:** Re: Wooden platform for dock builders  
**Date:** Thursday, May 19, 2016 11:06:34 AM

---

OK provided no surface water or soil is expelled from the holes.

Walter J. Papp Jr., P.E.  
RA Consultants LLC  
512 7th Avenue, 6th floor  
New York, NY 10018  
Direct: 646-484-3252  
Main: 646-484-3250  
[walter@racllc.com](mailto:walter@racllc.com)

On May 19, 2016, at 9:57 AM, June Yeung <[jyeung@ramboll.com](mailto:jyeung@ramboll.com)> wrote:

Walter,  
John says yes, the holes will be near the top of the sheetpile wall and will be repaired after the work is done. He also explained that the holes will be burned, not drilled.  
Thanks,  
June

Sent from my Verizon 4G LTE Smartphone

----- Original message-----

**From:** Walter J. Papp, Jr.  
**Date:** Thu, May 19, 2016 9:53 AM  
**To:** Nicholas Steenhaut; June Yeung;  
**Subject:** RE: Wooden platform for dock builders

Is this near the top of the sheet pile wall? Will it be repaired once the work is complete?

Walter

Walter J. Papp Jr., P.E.  
RA Consultants LLC  
512 7<sup>th</sup> Avenue, 6<sup>th</sup> Floor  
New York, NY 10018

Direct: 646-484-3252  
Main: 646-484-3250

[walter@racllc.com](mailto:walter@racllc.com)



---

**From:** Nicholas Steenhaut [<mailto:NSteenhaut@ramboll.com>]

**Sent:** Thursday, May 19, 2016 9:31 AM

**To:** June Yeung <[jyeung@ramboll.com](mailto:jyeung@ramboll.com)>; Walter J. Papp, Jr. <[walter@racllc.com](mailto:walter@racllc.com)>

**Subject:** Re: Wooden platform for dock builders

That's a question for Walter with RAC. Walter?

Sent from my iPhone

On May 19, 2016, at 9:21 AM, June Yeung <[jyeung@ramboll.com](mailto:jyeung@ramboll.com)> wrote:

Nick,

John indicates that he would like to drill 6 holes, each about the size of a quarter, along the sheetpile wall in order to install wooden float stages for the dock builders to stand on. This would be in place of the sand bags and wooden platform that they had originally planned to use according to the contract documents. Is this acceptable?

Thanks,

June

Sent from my Verizon 4G LTE Smartphone

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## **DESIGN CHANGE 11, 13, AND 15 CORRESPONDENCE**

**From:** [Depolo, David S NAP](#)  
**To:** [Nicholas Steenhaut](#); [Eric Emery](#); [June Yeung](#); [Walter J. Papp, Jr.](#); [Joseph Caciola](#)  
**Subject:** RE: Metal Bank - Question from USACE  
**Date:** Monday, June 20, 2016 8:41:47 AM

---

All,

In response to the question about the full penetration weld. I wasn't on site Monday-Thursday. When I got there on Friday, the HP section around the corner was already in place and stitch welded on the top and bottom, just about every six inches. Where the waler turns the corner, the inside flange of the HP did not have full penetration and it definitely could have. I believe they made this weld on the ground before putting it into position as once it was against the waler they could not have completed this weld. When I got there it was too late to correct the issue as trying to remove the backing plate to backgouge and weld from the other side of the flange would most likely have caused more damage than good and removing the HP section would certainly have damaged the waler flanges. With the surrounding weld, I think this should be OK. Once the welder made fillet weld pass this partial penetration weld has been covered up.

Dave

---

**From:** Nicholas Steenhaut [mailto:NSteenhaut@ramboll.com]  
**Sent:** Monday, June 20, 2016 7:44 AM  
**To:** Eric Emery <eemery@ramboll.com>; June Yeung <jyeung@ramboll.com>; Depolo, David S NAP <David.S.Depolo@usace.army.mil>  
**Subject:** [EXTERNAL] Fwd: Metal Bank - Question from USACE

Sent from my iPhone

Begin forwarded message:

**From:** "Walter J. Papp, Jr." <[walter@racllc.com](mailto:walter@racllc.com)>  
**To:** "Nicholas Steenhaut" <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Cc:** "Joseph Caciola" <[joe@racllc.com](mailto:joe@racllc.com)>  
**Subject:** RE: Metal Bank - Question from USACE

Hi Nicholas-

Please see our response below in CAPS and attached.

Walter

Walter J. Papp Jr., P.E.  
RA Consultants LLC  
512 7th Avenue, 6th Floor  
New York, NY 10018

Direct: 646-484-3252  
Main: 646-484-3250

-----Original Message-----

From: Nicholas Steenhaut [<mailto:NSteenhaut@ramboll.com>]  
Sent: Friday, June 17, 2016 11:28 AM  
To: Walter J. Papp, Jr. <[walter@racllc.com](mailto:walter@racllc.com)>; Joseph Caciola <[joe@racllc.com](mailto:joe@racllc.com)>  
Subject: FW: Metal Bank - Question from USACE  
Importance: High

Walter - see the email below. There are a number of questions being raised by Army Corps about the welding. The major one is whether continuous fillet welding is needed for the HP-8 steel beams. He says it will be very time consuming and doesn't seem necessary structurally. Maybe 12 inch weld followed by 12 inch gap, etc is sufficient? Your call.

Please also take a look at the other questions or observations below and provide your input.

Yours sincerely,

Nicholas Steenhaut, PE  
Senior Manager  
D +1 617 9466109  
M +1 607 2620139  
[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)

---

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Boston, MA 02110  
USA  
[Blockedwww.ramboll-environ.com](http://Blockedwww.ramboll-environ.com)

-----Original Message-----

From: Eric Emery  
Sent: Friday, June 17, 2016 11:09 AM  
To: Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
Subject: Metal Bank - Question from USACE

Hi Nick,

Dave from Army Corps is here today, and had a couple questions/comments:

- Should the waler currently be welded to the chairs? He observed one chair with a weld, but most others are not (some cannot be, because there is no contact between chair and outer edge of waler. He said any chairs that are welded now might become overstressed once the tie rods are re-tensioned. If we do want them welded, then that should be done after re-tensioning. **THE CHAIRS ARE TEMPORARY TO SUPPORT THE WALER FOR CONSTRUCTION, THEY DO NOT NEED TO BE WELDED TO THE WALER.**

- For any chairs that are staying in after repairs are complete, do we want them trimmed back to be flush with the outer edge of the waler/support beam? Should they be welded securely to the wall and/or waler? Is the preference to remove as many chairs as possible? **SEE ABOVE. IF THEY ARE TO REMAIN THEY PROBABLY SHOULD BE TRIMMED BACK.**

- He questioned the need for full welding along the entire length (top and bottom) of the support brackets. The design drawings call for it, so I assume that is what we will be doing, but he said it is time-consuming and may not be entirely necessary. He's checking with one of his technical guys about this now (what length of weld is actually needed to support the forces applied by the wall). **WE TOOK A SECOND LOOK AT THE CONTINUOUS WELD, THEY CAN WELD 2" EVERY 6". SEE ATTACHED CALCULATIONS.**

- He also mentioned that the inner weld of the corner waler did not achieve full penetration, but there isn't anything that really can be done about it at this point. Wanted to pass it along though, in case it is mentioned by someone else. **IS THERE A REASON WHY THEY COULD NOT ACHIEVE A FULL PENETRATION WELD?**

Thanks,  
Eric

Thanks,  
Eric

Ramboll Environ  
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---

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**From:** [Nicholas Steenhaut](#)  
**To:** [Eric Emery](#); [June Yeung](#); [David.S.Depolo@usace.army.mil](#)  
**Subject:** Fwd: Metal Bank - Question from USACE  
**Date:** Monday, June 20, 2016 7:43:38 AM  
**Attachments:** [12C1135 weld check 2016-06-17.pdf](#)

---

Sent from my iPhone

Begin forwarded message:

**From:** "Walter J. Papp, Jr." <[walter@racllc.com](mailto:walter@racllc.com)>  
**To:** "Nicholas Steenhaut" <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
**Cc:** "Joseph Caciola" <[joe@racllc.com](mailto:joe@racllc.com)>  
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-----Original Message-----

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To: Nicholas Steenhaut <[NSteenhaut@ramboll.com](mailto:NSteenhaut@ramboll.com)>  
Subject: Metal Bank - Question from USACE

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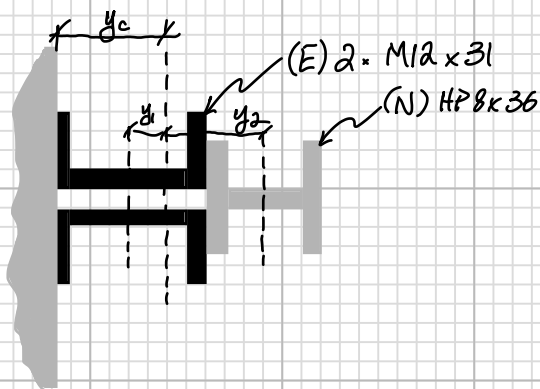




# RA Consultants LLC

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(646) 484-3250 · racllc.com

|                     |                                         |                |
|---------------------|-----------------------------------------|----------------|
| Project No. 12C1135 |                                         | Sheet No. 1/1  |
| Client              |                                         | Date 6/17/2016 |
| Project METAL BANK  | Subject FILLET WELD BTWN. MC & HP CHECK | By JJC         |



| MC12x31                   | HP8x36                      |
|---------------------------|-----------------------------|
| $d = 12"$                 | $d = 8.02"$                 |
| $t_f = 0.7"$              | $t_f = 0.445"$              |
| $S_x = 33.7 \text{ in}^3$ | $S_x = 29.8 \text{ in}^3$   |
| $I_x = 202 \text{ in}^4$  | $I_{xc} = 119 \text{ in}^4$ |
| $A = 10.6 \text{ in}^2$   | $A = 9.12 \text{ in}^2$     |

$$y_c = \frac{(21.2 \text{ in}^2)(6") + (9.12 \text{ in}^2)(16.0 \text{ in})}{21.2 \text{ in}^2 + 9.12 \text{ in}^2} = 9.0"$$

$$y_1 = 3"$$

$$y_2 = 7.01"$$

$$I_{cx} = 404 \text{ in}^4 + (21.2 \text{ in}^2)(3 \text{ in})^2 + 119 \text{ in}^4 + (9.12 \text{ in}^2)(7.01 \text{ in})^2 = 1671 \text{ in}^4$$

$$Q = (9.12 \text{ in}^2)(7.02 \text{ in}) = 64 \text{ in}^3$$

MAX SPAN FOR NEW WATERER  $\approx 20' \pm$

$$\text{USING } 4 \text{ K/FT}, V_{\text{MAX}} = \frac{(4 \text{ K/FT})(20')}{2} = 40 \text{ K}$$

$$\text{SHEAR FLOW} = \frac{VQ}{I_x} = \frac{(40 \text{ K})(64 \text{ in}^3)}{1671 \text{ in}^4} = 1.5 \text{ K/in}$$

PER AISC J2.4, MIN. WELD =  $3/16" \rightarrow 5/16"$  SPECIFIED

FOR  $F_{EXX} = 70 \text{ KSI}$

$$\frac{R_N}{\Sigma L} = 0.928 \text{ DL}$$

$$\frac{R_N}{\Sigma L} = (0.928)(5) = 4.64 \text{ K/in} \Rightarrow 9.28 \text{ K/in FOR TWO SIDED FILLET}$$

$$MIN \% \text{ CONTINUOUS WELD} = \frac{1.5}{9.28}(100) = 16\%$$

PER AISC E6.2, 3<sup>RD</sup> PARAGRAPH:

$$\text{MAX SPACING} = 0.75t \sqrt{\frac{E}{F_y}} \leq 12"$$

$$(0.75)(0.445) \sqrt{\frac{29000}{50}} = 8.0"$$

USE 6" SPACING.

$$\text{MIN. LENGTH OF SEGMENT} = \frac{x'}{6"} \text{ TRY } \frac{d'}{6"}(100) = 33\% > 16\% \text{ OK}$$

2" WELDS TOP & BOTTOM @ 6" O.C.

## DESIGN CHANGE 12 CORRESPONDENCE

**From:** [Joseph Caciola](#)  
**To:** [Nicholas Steenhaut](#); [Joseph Vitale](#)  
**Cc:** [June Yeung](#); [Walter J. Papp, Jr.](#)  
**Subject:** Metal Bank Tie Rod Testing  
**Date:** Tuesday, June 28, 2016 4:49:26 PM

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Nicholas, Joe-

As of the end of the day today, the crews have successfully tested 6 out of the 10 tie rods. This includes all of the tie rods in the "waler repair" area. Given that the tests have all passed to date and the testing agency has conducted the tests to our satisfaction, we do not feel it is necessary for us to be on site tomorrow. As such, we are not scheduled to return to the site.

The only change that I'd like to remind the crew of is that we will no longer be testing the corner tie rod (T2/T3) but instead we recommend testing T9.

Let us know if any questions come up.

Regards,  
Joe

-

Joseph J. Caciola Jr., P.E.  
RA Consultants LLC  
917-636-8281